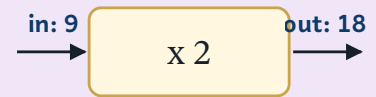


Algebra problem-solving and end-of-year review

WHAT THIS LESSON TEACHES

Pull the year together: **patterns, expressions and equations** as tools for solving problems and explaining your reasoning.

→ Name the unknown, write the rule or equation, solve, then check.



DISCUSSION STARTER

REFLECT Where this year did using a letter for an unknown make a problem easier?

ANSWER KEY

W1: commutative property

W2: 19

Q1: 53

Q2: $x = 9$

a) Never — $3n$ means $3 \times n$.

b) Always — Three lots of n .

c) Never — They are not like terms; it stays $3n + 2$.

d) Always — That is the rule for solving equations.

e) Sometimes — Often, but not always — some have many solutions or none.

f) Never — $2(n + 1) = 2n + 2$, not $2n + 1$.

EXTENSION SHEET · STRETCH ANSWERS

S1: $\times 3 + 8$

S2: $x = 8$

S3: 22

S4: 19

S5: 16